

Design Issue/Resolution Summary - By Meeting

| <i>Meeting Number</i> | <i>Date</i> | <i>Discipline</i> | <i>Subject</i> | <i>Description</i> |
|---------------------------|-------------|-------------------------|------------------------------|--|
| 1 | 10/3/1995 | ROADWAY | Frontage Roads | Design criteria and possible bicycle lane accommodation. |
| 1 | 10/3/1995 | GENERAL | Sheet Order | Distributed a proposed plan sheet order and discipline drawing designations. |
| 1 | 10/3/1995 | GENERAL | English to Metric Conversion | Status of English to Metric conversion. |
| 1 | 10/3/1995 | ROADWAY | Embankment Slopes | Discussion regarding slope erosion, use of curb and gutter, and use of barrier with different foreslope rates. |
| 1 | 10/3/1995 | ROADSIDE DEVELOPMENT | Topsoil | Topsoil plating is required on all projects. |
| 1 | 10/3/1995 | ROADWAY | Ramp Numbering | Provided sketch showing how to station and designate ramps. |
| 1 | 10/3/1995 | ROADWAY | "Draft" Roadway Design Guide | The UHS Design Procedure Manual (DPM) is no longer in use. Designers must use the "Draft" Roadway Design Guidelines (RDG). |
| 2 | 11/7/1995 | ROADWAY | Auxiliary Lanes | Auxiliary Lane Guidelines are currently in the draft stage of development. |

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| 2 | 11/7/1995 | ROADWAY | New Details - Concrete Median Barrier Type "F" | Distribution of "Draft" 42" Height Concrete Median Barrier and Transition. |
| 2 | 11/7/1995 | GENERAL | Plan Presentation Guidelines | Discussion of consistent plan presentation for Regional Freeway System projects. |
| 2 | 11/7/1995 | ROADWAY | Location of Profile Grade Line | Guidelines to determine the location of the profile grade line and axis of rotation. |
| 2 | 11/7/1995 | DRAINAGE | Use of CHDPEPP for Storm Drains | Memos from T. Otterness regarding the use of corrugated high density polyethylene plastic pipe (CHDPEPP) pipe for storm drains. Design criteria and revised pipe summary sheets. |
| 2 | 11/7/1995 | GENERAL | Metric Conversion Status | Status and update on metric conversion. |
| 2 | 11/7/1995 | TRAFFIC | New Lighting Policy | S. Chalmers presented ADOT's New Reduced Lighting Policy. |
| 3 | 12/5/1995 | ROADWAY | Interim Freeway Typical Section | Pavement design for interim freeway projects that are planned for future widening. |
| 3 | 12/5/1995 | ROADWAY | Emergency Bypass Detail Barrier | Distributed an Emergency Vehicle Access Lane Plan detail. |
| 3 | 12/5/1995 | ROADWAY | Slope Rounding | Discussion of slope rounding and design guidelines. Distributed example drawings. |

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| 3 | 12/5/1995 | ROADWAY | Chapter 500, Roadway Design Guidelines | Distributed Draft RDG Chapter 500, "Traffic Interchanges" dated September 1995. |
| 3 | 12/5/1995 | ROADWAY | Auxiliary Lanes | Summary and conclusions of the evaluation of auxiliary lanes. |
| 3 | 12/5/1995 | ROADWAY | Offset Barrier Wall Detail | Distributed new 32-inch and 42-inch Offset Barrier Wall details. |
| 3 | 12/5/1995 | MAPPING/SURVEYING | Aerial Mapping Files Conversion | Discussion regarding the conversion of aerial mapping files from NAVD '27 to NGVD '83, and from English to Metric units. |
| 3 | 12/5/1995 | GENERAL | Plan Sheet Numbering | Further discussion regarding the method of numbering plan sheets. |
| 3 | 12/5/1995 | GENERAL | Earthwork | Discussion regarding proper accounting of pipe and structure excavation. |
| 4 | 2/6/1996 | RIGHT-OF-WAY | Metric Conversion | D. Bloodworth and R. Henderson from ADOT's Geodesy Section presented recommended procedures for conversion of right-of-way surveys from NAVD '27 (English) to NGVD '83 (metric). |
| 4 | 2/6/1996 | ROADWAY | Concrete Barrier Preference over Guardrail | Phoenix Maintenance and Construction Districts recommend the use of concrete barrier. They also recommend 48" height median barrier instead of 36" barrier with glare screen. |
| 4 | 2/6/1996 | MATERIALS | Test Shaft | During the design phase, a large diameter drilled shaft exploratory program shall be performed and results made available during the bidding process. |

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| 4 | 2/6/1996 | ROADWAY | Roadway Superelevation Tables | Distributed new RDG superelevation tables (pages 200-9 to 200-12) in metric units. |
| 4 | 2/6/1996 | UTILITY | Utility Designating and Potholing | B. Briscoe presented an overview on the new procedures for coordinating with U & R.R. to obtain utility designation and pothole information. |
| 4 | 2/6/1996 | TRAFFIC | Freeway Lighting | Design guidelines for reduced freeway lighting. |
| 5 | 3/5/1996 | GENERAL | Scaleability of Plans | New procedures and drawing borders will provide scaleable half-size plans (11" x 17"). |
| 5 | 3/5/1996 | ROADWAY | Embankment Slopes | Updated embankment slope design guidelines. |
| 5 | 3/5/1996 | ROADSIDE DEVELOPMENT | Storm Water Pollution Prevention Plans (SWPPP) | Distributed new ADOT Erosion Control Planning for Urban Freeways document, and SWPPP checklist. |
| 5 | 3/5/1996 | DRAINAGE | Alternative Pipe Selection Guidelines | Provided notification the new ADOT Pipe Selection Guidelines are available for use on ADOT projects. |
| 6 | 4/2/1996 | ROADWAY | 42-inch Concrete Barrier | Distributed Standard Drawings C-10.63 and C-10.85 (Draft 8/95) for 42-inch Type "F" concrete barrier. Discussed design guidelines for the use of 42-inch barrier. |
| 6 | 4/2/1996 | DRAINAGE | Drainage Guidelines (Do's and Don'ts) | Discussion of drainage issues that designers should consider during design. |

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| 6 | 4/2/1996 | DRAINAGE | Pump Station | Design modifications at the SR51 pump station at Cactus Road. Distributed design guidelines for future pump station designs. |
| 6 | 4/2/1996 | ROADWAY | Auxiliary Lanes | Distributed "Draft" Checklist for Auxiliary Lanes |
| 6 | 4/2/1996 | GENERAL | Earthwork Management | Discussed the responsibilities of DMJM for earthwork management. Maps are available that show waste or borrow conditions for each freeway segment. |
| 6 | 4/2/1996 | ESTIMATE | Cost Estimates | Overview of DMJM's role as ADOT's General Consultant. Distributed cost estimate preparation guidelines. |
| 6 | 4/2/1996 | UTILITY | SRP Land Issues | Distributed letter dated 3/1/1996 from Salt River Project confirming their policy for land acquisition prior to ADOT construction projects. |
| 7 | 5/7/1996 | DRAINAGE | Pipe Selection Guidelines and Procedures (PSG&P) | Presented and distributed new ADOT Pipe Selection Guidelines and Procedures (PSG&P). |
| 7 | 5/7/1996 | ROADSIDE DEVELOPMENT | Topsoil | Distributed a draft detail for topsoil plating. |
| 7 | 5/7/1996 | ROADWAY | PCCP Joints | Distributed an example PCCP joint layout detail for the ramp to auxiliary lane transition area. |
| 7 | 5/7/1996 | ROADWAY | Shoulder Treatments | Treatment of median and outside concrete pavement edges in both cut and fill conditions. Median slope alternatives. Will be included in RDG update. |

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| 8 | 6/4/1996 | ROADWAY | Auxiliary Lanes | S. Bolduc presented a proposed "Problem Statement- Auxiliary Lanes". A sub-committee will be formed to develop design guidelines. |
| 8 | 6/4/1996 | ROADWAY | Shoulder Treatment | Distributed RDG Figures 302.1 & 302.4 for shoulder treatments and topsoil plating. |
| 8 | 6/4/1996 | ROADWAY | Single-Point Urban Interchange (SPUI) | Presentation by Greiner Engineering on the pros and cons of SPUI. Discussion on design guidelines. |
| 9 | 8/6/1996 | TRAFFIC | Freeway Lighting | Distributed and presented the Interim Lighting Policy and Guidelines. |
| 9 | 8/6/1996 | STRUCTURE | Single Point Urban Interchange (SPUI) | D. Heller of T.Y. Lin presented example projects and design considerations for the bridge design for a SPUI. |
| 9 | 8/6/1996 | TRAFFIC | Raised Pavement Markers | A Technical Memorandum was distributed for the use of ceramic buttons for freeway lane lines. |
| 9 | 8/6/1996 | ENVIRONMENTAL | Section 404 Permitting and Dealing with Section 4(f) Issues | Overview and project requirements for Section 404 permitting and Section 4f issues. |
| 9 | 8/6/1996 | GENERAL | MAG Details and Specifications | MAG Details can be referenced in the plans. |
| 10 | 9/10/1996 | TRAFFIC | Freeway Lighting | Full freeway width lighting will be implemented over the length of an auxiliary lane. |

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| 10 | 9/10/1996 | SPECIFICATION | Metric Rebar | A Special Provision is being developed which will allow contractors to substitute English rebar on projects without bridges. Designers will review and approve substitutions. |
| 10 | 9/10/1996 | ROADWAY | Low Speed Approach Barrier Transition Detail | Distributed and discussed the use of a new low speed approach barrier transition detail. |
| 10 | 9/10/1996 | FMS | FMS Guidelines | Kimley-Horn presented the current FMS Design Guidelines. |
| 10 | 9/10/1996 | ROADWAY | Single Point Urban Interchange (SPUI) | Distributed memo from FHWA (dated 8/20/96) regarding the use of compound and broken back curves for SPUI design. |
| 11 | 10/1/1996 | ROADWAY | Single Point Urban Interchange (SPUI) | Distribution of design detail to reduce the impact of left-turning vehicle queuing on the exit ramp approaching a SPUI. |
| 11 | 10/1/1996 | ROADWAY | Visibility at Barriers on Crossroads | Potential design modifications to eliminate the concrete separation barrier on freeway overpasses. |
| 11 | 10/1/1996 | SPECIFICATION | Metric Conversion | Distributed and discussed the "Draft" Special Provision for metric reinforcing steel. |
| 11 | 10/1/1996 | GENERAL | Face Sheets | Preparation of Face Sheets. |
| 12 | 11/5/1996 | DRAINAGE | Pipe Selection Guidelines | The use of general bid items for multiple pipe material alternatives. |

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| 12 | 11/5/1996 | ENVIRONMENTAL | Noise Abatement Policy | Distribution and presentation of ADOT's New Noise Abatement Policy (8/27/1996). |
| 12 | 11/5/1996 | STRUCTURE | Metric Conversion | Distributed a memo from Dan Davis regarding metric reinforcing bars. |
| 12 | 11/5/1996 | ROADWAY | PCCP Joint Details | Distribution of new auxiliary lane PCCP joint details for exit and exit ramps. |
| 12 | 11/5/1996 | ROADWAY | Visibility at Barriers on Crossroads | Distribution of a new bridge barrier detail to possibly eliminate separation barrier between travel lanes and sidewalk on freeway overpasses. |
| 13 | 12/4/1996 | ROADWAY | Auxiliary Lanes | Distributed and discussed the new "Interim" Auxiliary Lane Design Guidelines. |
| 13 | 12/2/1996 | DRAINAGE | High Density Polyethylene Pipe (HDPE) | Distributed a memo from T. Otterness advising that HDPE is now approved up to 36" diameter and fill heights up to 10 feet. |
| 13 | 12/2/1996 | ROADWAY | Design Exceptions | Distributed procedures for evaluating design criteria and requesting design exceptions. |
| 14 | 2/4/1997 | UTILITY | Highway Right-of-Way Lease Policy | B. Briscoe gave an overview on ADOT's policy of leasing a portion of the right-of-way for utility or other uses. |
| 14 | 2/4/1997 | STRUCTURE | Bridge Clearances | Distributed revised Page 220-28 of the RDG. The vertical clearance required for structures over "Other Roadways" has been increased from 4.3 meters to 4.6 meters. |

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| 14 | 2/4/1997 | UTILITY | Utility Crossings | Utilities crossing ADOT's right-of-way must either be placed in sleeves, or be concrete encased if sleeving is not practical. |
| 14 | 2/4/1997 | SPECIFICATION | Pre-Wetting Specification | Distributed and discussed a new specification for pre-wetting materials for dust control. |
| 14 | 2/4/1997 | ADMINISTRATION | Regional Freeway System Schedule Update | Discussed the development of the January 31, 1997 Regional Freeway System Program and presented the revised schedules. |
| 15 | 3/4/1997 | ESTIMATE | Project Cost Estimates and Schedules | M. Peters, C. Eaton and V. Mendez discussed the importance of meeting schedules and budgets for the Regional Freeway System projects. Cost estimates that deviate from the program amounts will require a detailed explanation and justification. |
| 15 | 3/4/1997 | CONSTRUCTION | Design-Build Process | R. Williams described the Design-Build Process that ADOT is using on two projects. One project is in the Tucson area, the second will be in the Phoenix area when selected. The purpose of Design-Build is to accelerate completion date. |
| 16 | 4/1/1997 | ADMINISTRATION | Performance Measuring | Reminder that designers will be evaluated on submittal timeliness. |
| 16 | 4/1/1997 | CONSTRUCTION | Earthwork Management Update | E. Crowe explained that he prepares maps showing the amount of excess and needed earthwork for each freeway corridor on a quarterly basis. |
| 16 | 4/1/1997 | GENERAL | Review Comments vs. Design Guidelines | Designers should not accept review comments that deviate from the published design guidelines without discussing with their Project Manager. |
| 16 | 4/1/1997 | FMS | FMS Requirements | FMS installation should be limited to the installation of loop detectors that are sleeved into a No. 7 pullbox. |

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| 16 | 4/1/1997 | GENERAL | Standard Sheets 1A, 1B, 1C | Distribution of a memo from D. Macdonald regarding the use of Sheets 1A, 1B, and 1C. |
| 17 | 6/3/1997 | ROADWAY | Construction Standard Drawings | Distributed revised Standard Drawing C-10.62; Concrete Half Barrier, with Gutter (in Metric and English). |
| 17 | 6/3/1997 | ROADWAY | Shoulder Treatments | The median inside shoulder material should be asphaltic concrete. |
| 17 | 6/3/1997 | ROADWAY | Bike Lanes on Frontage Roads | ADOT's current policy on bike lanes is that the Department will not provide striping for bike lanes. |
| 17 | 6/3/1997 | ROADWAY | Construction Standard Drawings | Distributed revised C-Standard Drawings for catch basins and concrete barriers. |
| 17 | 6/3/1997 | GENERAL | Construction Standard Drawings | Distributed the revised Standard Drawing C-10.67; Concrete Median Barrier, Type "F", Cast-in-Place. |
| 17 | 6/3/1997 | ROADWAY | Guard Rail End Terminals | Distributed a memo detailing the new standards for guard rail end terminals. |
| 17 | 6/3/1997 | ESTIMATE | Cost Estimates | Discussion of the Cost Estimating Workshop held on 4/29/97. |
| 17 | 6/3/1997 | ROADWAY | Guard Rail | The AASHTO design guidelines allow a maximum vertical curb height of 100 mm (4-inches) at guard rail installations. |

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| 17 | 6/3/1997 | ROADWAY | PCCP Joints | PCCP joint layout clarification. |
| 18 | 10/7/1997 | ADMINISTRATION | Expectations of the Design Consultant's Project Manager | ADOT Valley Project Management's expectations of the Design Consultant's Project Manager. |
| 18 | 10/7/1997 | ESTIMATE | Cost Estimates | T. O'Reilly reviewed some of the key points that were presented in the Cost Estimating Workshop held on 4/29/97. Designers should consult with DMJM during their development of construction cost estimates. |
| 19 | 11/4/1997 | SPECIFICATION | Drilled Shaft Specification | New ADOT performance based drilled shaft specification. |
| 19 | 11/4/1997 | ROADWAY | Crash Cushions | Distributed information for the QuadGuard Crash Cushion. |
| 19 | 11/4/1997 | STRUCTURE | Bridge Railing | Presented an overview of the history of bridge railing design guidelines. |
| 20 | 2/3/1998 | ROADWAY | Barrier End Treatments | Distribution of ADOT Memorandum (1/22/1998) announcing the QuadGuard Crash Cushion and the GREAT attenuator were added to ADOT's Approved Products List. |
| 20 | 2/3/1998 | TRAFFIC | MUTCD and ADOT Traffic Manual | The 1998 MUTCD edition has been adopted by the State of Arizona. |
| 20 | 2/3/1998 | STRUCTURE | Bridge Deck Drainage | Phoenix Maintenance District discussed the problem of providing adequate drainage for the sidewalk area between the separation barrier and pedestrian railing on bridge structures. |

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| 21 | 3/3/1998 | ROADWAY | Concrete Barrier | Distributed a detail for the use of concrete half barrier adjacent to a retaining wall. |
| 21 | 3/3/1998 | SPECIFICATION | Bid Item - Removal of Structures and Obstructions | Discussed the "Remove Structures and Obstructions" bid item. |
| 21 | 3/3/1998 | DRAINAGE | Value Analysis | One means to reduce the cost of the on-site drainage system is to allow the gutter pan to match the roadway cross-slope. |
| 21 | 3/3/1998 | ROADWAY | Value Analysis | The use of curb and gutter on embankment fills with foreslopes of 4:1 is needed to reduce the potential for erosion. |
| 21 | 3/3/1998 | ROADWAY | Parallel Entrance Ramps | Distributed the RDG Figure 504.8A. Auxiliary lanes should be provided between successive entrance and exit ramps. |
| 21 | 3/3/1998 | ROADWAY | Value Analysis | After an analysis of bid tabs, it appears that the elimination of curb and gutter on the high side of superelevated roadways does not provide a cost savings. |
| 22 | 4/7/1998 | TRAFFIC | End of Freeway Signing and Pavement Markings | Discussion of signing and pavement markings for end-of-freeway situations. |
| 22 | 4/7/1998 | CONSTRUCTION | Construction Lessons-Learned | Discussed the procedures needed for post construction lessons-learned documentation. |
| 22 | 4/7/1998 | DRAINAGE | Pipe Selection Tables | Distributed the new Pipe Selection Tables. |

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| 22 | 4/7/1998 | ROADWAY | Superelevation Tables | Discussed the application of superelevation runout lengths. |
| 22 | 4/7/1998 | MATERIALS | General Determination of Shrink/Swell | Use of backhoe pits to increase accuracy of design shrink and swell factors. |
| 23 | 5/5/1998 | ROADWAY | Sealed Joints Between Mainline PCCP and Asphalt Shoulders | Discussed the details and specifications associated with the "S" pavement joint. |
| 23 | 5/5/1998 | ROADWAY | Barrier End Treatments and Crash Cushions | Presented the process used by ADOT to evaluate new products. Distributed the approved guardrail end treatments and crash cushions. |
| 24 | 7/7/1998 | ADMINISTRATION | DIRP Performance Appraisal | Discussion of DIRP performance appraisal feedback. |
| 24 | 7/7/1998 | SPECIFICATION | Stored Specifications | Discussion of procedures to develop a stored specification, provide modifications to a stored specification, and the status of new ADOT Standard Specifications. |
| 24 | 7/7/1998 | GENERAL | Payment of Water Used in Construction | Presented the new ADOT policy and specifications for payment of water used for construction. |
| 24 | 7/7/1998 | ADMINISTRATION | Submittal Expectations | Discussion of ADOT Valley Project Management's expectations for design submittals. |
| 25 | 9/1/1998 | ROADWAY | Americans with Disabilities Act (ADA) Requirements | Presented the new ADA requirements. Discussed ADOT's implementation plan and updates to the C-Standards. |

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| 25 | 9/1/1998 | DRAINAGE | Smooth Bore CHDPEPP | 42" and 48" smooth bore CHDPEPP has been approved by ADOT for applications with fill heights less than 10 feet. |
| 25 | 9/1/1998 | CONSTRUCTION | Sealing Change Orders | Distributed Construction Bulletin No. 96-0, "Sealing of Change Orders". Discussed procedures to comply with this document. |
| 25 | 9/1/1998 | MATERIALS | Excavation Factors for Depressed Urban Freeways | ADOT Materials Group memorandum (dated 6/12/98) which new procedures for calculating excavation factors for depressed urban freeways. |
| 26 | 10/6/1998 | ROADWAY | Bicycle Lane Policy | Distribution and discussion of the new ADOT Bicycle Lane Policy. |
| 26 | 10/6/1998 | ROADSIDE DEVELOPMENT | Landscaping | Current design policy includes providing topsoil and pipe sleeves for future landscaping. Designers should try to use on-site soils. Waterline taps for landscape irrigation are typically included with the landscaping project. |
| 26 | 10/6/1998 | TRAFFIC | Freeway Lighting Policy | Full freeway lighting will be provided for all freeway projects. |
| 26 | 10/6/1998 | ROADWAY | HOV Bypass Design | Discussed the MAG HOV Policy Report that includes a recommendation to provide for HOV bypass features at single lane entrance ramps. |
| 27 | 11/3/1999 | FMS | FMS Guidelines | The FMS Design Guidelines will be revised in the near future. |
| 27 | 11/3/1999 | STRUCTURE | Bridge Aesthetics | Discussed allowable architectural patterns, and the status of the Draft Enhancement Policy. |

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| 27 | 11/3/1999 | ROADWAY | 32"/42" Height Concrete Barrier | Discussed the application of Concrete Half Barrier (42") (F-Shaped), and the status of the updated bridge and construction standard drawings. |
| 27 | 11/3/1999 | TRAFFIC | Ramp Striping | Discussion of Traffic Group's proposed modifications to the entrance ramp gore striping, and the possible use of profile pavement markings. |
| 27 | 11/3/1999 | ROADWAY | Barrier Summary Sheet | The new Barrier Summary Sheet and Policy Memorandum was distributed to attendees. |
| 27 | 11/3/1999 | CONSTRUCTION | Post Design Services | All post design work authorizations must be pre-approved by the ADOT PM prior to starting the work. To expedite the process, the Consultant should e-mail the Post Design Work Request to the PM and RE simultaneously. |
| 28 | 2/2/1999 | ROADWAY | Safety Railing | Guidelines for the placement and design of safety railing. |
| 28 | 2/2/1999 | FMS | FMS Guidelines | Distribution and discussion of ADOT's Interim Supplement to the FMS Design Guidelines (Dec. 1994). |
| 28 | 2/2/1999 | ROADWAY | Access Control Fencing | Discussed the access control fencing requirements at service interchanges. |
| 28 | 2/2/1999 | ROADWAY | ADA Update for Sidewalk Ramps | Department of Justice clarification of ADA requirements for sidewalk ramps. Discussion of design requirements. |
| 29 | 4/6/1999 | ROADWAY | Type "C" Curb & Gutter, and Catch Basins | Distributed the new C-Standard Drawing for Type "C" curb and gutter and related freeway catch basins. Revised to increase the conveyance capacity of curb and gutter. |

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| 29 | 4/6/1999 | ROADWAY | Construction Standard Drawings | Distributed a summary of the new C-Standard Drawings that will be distributed in July, 1999. |
| 29 | 4/6/1999 | ENVIRONMENTAL | Coordination with Corps of Engineers | The COE has assigned one staff member to coordinate all ADOT projects. COE requested that ADOT Environmental Group should be the single point of contact with the COE. |
| 29 | 4/6/1999 | ROADWAY | Construction Standard Drawings | Distributed and discussed the new C-Standard Drawings for F-Shaped concrete half barrier. |
| 29 | 4/6/1999 | TRAFFIC | Sign Sheeting | Distributed the ADOT Traffic Group's Sign Sheeting Guidelines. |
| 29 | 4/6/1999 | ROADWAY | Shy Distance on Outside Shoulders | Distributed and discussed ADOT Roadway Group's 2-Foot Offset Distance Barrier Design Guidelines. |
| 29 | 4/6/1999 | GENERAL | Half Size Border | The plan sheet borders were recently revised to allow for plotting for scaleable half-size plans sheets (11" x 17"). |
| 29 | 4/6/1999 | TRAFFIC | Turn Lane Guideline | Distributed the new Turn Lane Design Guidelines. Also distributed the new Traffic Pavement Marking Standard Drawings. |
| 30 | 9/3/1999 | ROADWAY | Median Barrier | Implementation of three-strand cable barrier on the Regional Freeway System. |
| 30 | 9/3/1999 | UTILITY | Irrigation Siphons | ADOT cannot enter into agreements for ongoing maintenance costs. Discussed the impacts to the future use of irrigation siphons. Designers should consider other alternatives. |

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| 30 | 9/3/1999 | ROADWAY | Sidewalk Ramp Details | Distributed the Sidewalk Ramp Standards Memorandum and accompanying sidewalk ramp details. |
| 30 | 9/3/1999 | TRAFFIC | New Entrance Ramp Pavement Marking Details | Distributed the ADOT Traffic Engineering Group's Technical Memorandum No. 9 regarding on-ramp gore striping. This guideline is effective within the Phoenix Construction District. |
| 31 | 2/1/2000 | TRAFFIC | Overhead Signs & Sign Structures | Discussed the need to design all overhead sign structures to provide the minimum vertical clearance for the ultimate freeway section. |
| 31 | 2/1/2000 | TRAFFIC | Tapered Tube Sign Structures | The ADOT Tapered Tube Sign Structure Standard Drawing, Std. 4-S-5.01 (1991) is no longer supported by ADOT Traffic and Bridge Groups. |
| 31 | 2/1/2000 | TRAFFIC | Sign Structure Foundation Layout (Std B-40.30) | Clarification of Standard Drawing B-40.30 to address earthwork grading interface. |
| 31 | 2/1/2000 | TRAFFIC | Conduit in Bridge Barrier for Signals and Lighting | Designers should forward proposed bridge barrier designs to ADOT Bridge Group for review. |
| 32 | 7/24/2000 | TRAFFIC | Sign Sheeting | ADOT Traffic Group is evaluating the use of singular demountable characters for sign legends. The E-Modified legend series will be used for guide sign design. Type III high intensity sheeting will be used for warning signs in urban areas. |
| 32 | 7/24/2000 | TRAFFIC | LED Signal Modules | ADOT Traffic Group is developing an updated specification for LED signal modules. |
| 32 | 7/24/2000 | TRAFFIC | Urban Freeway Pavement Marking Standards | ADOT Traffic Group is in the process of updating their Traffic Engineering Policies, Guidelines and Procedures Manual (PGP) . The striping details are currently being revised by Traffic Group. Please contact Traffic Group to obtain the detail revisions. |

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| 32 | 7/24/2000 | TRAFFIC | Glare Screen | Discussion of providing a note in the Traffic Control Plans for glare screen. |
| 32 | 7/24/2000 | TRAFFIC | Traffic Signal Cabinets | ADOT has decided to not install the 179 signal cabinets. |
| 33 | 9/5/2000 | UTILITY | Irrigation Siphons | Discussed a process to determine additional maintenance costs associated with irrigation siphons. |
| 33 | 9/5/2000 | UTILITY | Utility Locating | Distribution of the Utility Location and Pothole process. |
| 33 | 9/5/2000 | ROADWAY | Type "B" and "C" Curb and Gutter | Distribution of Draft RDG section to clarify the criteria for the placement of Type "B" and "C" curb and gutter. |
| 33 | 9/5/2000 | GENERAL | Results of Feedback for ADOT Review Process | Distributed the results of a questionnaire regarding feedback for the ADOT review process. |
| 33 | 9/5/2000 | ADMINISTRATION | Submittal Checklist | Distribution and discussion of ADOT's Submittal Checklist. |
| 34 | 12/5/2000 | GENERAL | CADD Files | Discussion of CADD file problems and standard naming conventions. |
| 34 | 12/5/2000 | UTILITY | Utility Locating | Discussed the procedures to provide utility designation and pothole data to local agencies. |

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|---------------------------|-------------|-------------------|--|--|
| 34 | 12/5/2000 | UTILITY | Policy on Abandoned Utilites | The new Utility Manual will include a reference to State law that requires the removal of abandoned utilities within ADOT's right-of-way. |
| 34 | 12/5/2000 | UTILITY | Placement of Utilities within ADOT's Access Control Limits | Guideline for placement of utilities within ADOT's access control limits. |
| 34 | 12/5/2000 | ENVIRONMENTAL | Noise Abatement Policy | Distributed and discussed the updated Noise Abatement Policy. Noise wall foundations shall be designed to allow the wall to be raised by 4 feet in the future. |
| 34 | 12/5/2000 | UTILITY | Utility As-Built Drawings | The local agencies and utility companies have requested ADOT to submit the utility line as-built drawings upon completion of their facility relocation. |
| 34 | 12/5/2000 | SPECIFICATION | Construction Water | Procedures to obtain construction water from the Central Arizona Project (CAP) or Salt River Project (SRP). |
| 35 | 4/3/2001 | ROADWAY | Construction Standard Drawings | ADOT will distribute updated C-Standard Drawings for survey markers, right-of-way markers and catch basins. |
| 35 | 4/3/2001 | ROADWAY | Standard 1A, 1B, and 1C Sheets | Distributed an ADOT Roadway Group memorandum regarding the use of Standard 1A, 1B, and 1C Sheets. |
| 35 | 4/3/2001 | TRAFFIC | Freeway Guide Signing - 1992 Control City Signing Policy | Discussed the development of ADOT's Control City Signing Policy in 1992. ADOT Traffic Group will issue a design memorandum to clarify freeway guide signing for the Regional Freeway System. |
| 35 | 4/3/2001 | TRAFFIC | Flourescent Orange Sign Sheeting | ADOT will require fluorescent sheeting on signs used for work zone traffic control. |

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| 35 | 4/3/2001 | TRAFFIC | New Traffic Group Standard Drawings | Distributed the updated Traffic Group Standard Drawings. |
| 36 | 8/7/2001 | GENERAL | Upcoming Issues for Resolution | Discussion of pending issues related to concrete half barrier, retaining walls, and estimating construction water. |
| 36 | 8/7/2001 | ROADWAY | Access Control | Distributed the new ADOT policy regarding access control at traffic interchanges. |
| 36 | 8/7/2001 | ROADWAY | Construction Standard Drawings | Discussion of new ADOT C-Standard Drawings for catch basins, guardrail, and PCCP joints. |
| 36 | 8/7/2001 | UTILITY | Utilities on Bridge Structures | Provided the new guidelines developed by ADOT Bridge Group and Utilities & Railroad Engineering Section regarding the placement of utilities on bridge structures. |
| 36 | 8/7/2001 | ROADSIDE DEVELOPMENT | Materials for Temporary Erosion Control Design | Discussed the new requirements for temporary erosion control design. |
| 36 | 8/7/2001 | ROADSIDE DEVELOPMENT | Roadside Development Issues | Distribution of the new ADOT Generic Scope-of-Work Section 455 - Landscape Architectural Design and Erosion Control Design. This section has been modified to include additional tasks for providing support for the future landscaping projects. |
| 37 | 3/5/2002 | MATERIALS | Pavement Design | The pavement design must be based on MAG traffic volume projections. |
| 37 | 3/5/2002 | STRUCTURE | Concrete Barrier at Retaining Walls | Distribution of guidelines for the use of the new ADOT Bridge Group Standard Detail SD-1.01. |

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| 37 | 3/5/2002 | TRAFFIC | Crossroad Sign Structures | Clarification of the use of tubular and tapered tube sign structures. |
| 37 | 3/5/2002 | TRAFFIC | Crossroad Sign Lighting | Clarification of crossroad sign lighting. |
| 37 | 3/5/2002 | GENERAL | CADD Files | The Design Consultants are now required to submit their CADD files with each project submittal. The project reference files are required to be included with each interim submittal for ADOT review. |
| 37 | 3/5/2002 | TRAFFIC | Cold Tape | Distributed correspondence regarding the use of 90 mil alkyd thermoplastic in-lieu of cold tape for pavement markings. |
| 38 | 4/2/2002 | UTILITY | Utility Placement in Right-of-Way | Distribution of a summary of the new requirements for the placement of wet utilities within ADOT's right-of-way. |
| 38 | 4/2/2002 | UTILITY | Utility Placement in Bridge Structures | Distribution of a summary of the new ADOT requirements for the placement of utility ducts or sleeves in bridge structures. |
| 38 | 4/2/2002 | ROADWAY | New Bicycle Policy | Distribution and discussion of the new ADOT Policy MGT 02-01, Bicycle Policy and design guidelines. |
| 39 | 5/7/2002 | ESTIMATE | Intergovernmental Agreement (IGA) Cost Exhibits | Distribution and discussion of the format and procedures to prepare the cost exhibits for Intergovernmental Agreements. |
| 39 | 5/7/2002 | ESTIMATE | Engineer's Estimate Recapitulation and Agreement Estimate | Distributed and discussed of the format and procedures necessary to prepare the Agreement Estimate Recapitulation sheet. A recapitulation sheet is required to accompany the cost estimate for all submittals. |

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| 39 | 5/7/2002 | GENERAL | Timeliness of Record Drawing Plans | Distribution and discussion of the procedures for completion of Record Drawings. |
| 39 | 5/7/2002 | ROADWAY | Bus Bay Requests by Local Agencies | Clarification of the Department's position regarding bus bays that are requested by local agencies. |
| 40 | 10/1/2002 | ROADSIDE DEVELOPMENT | Topsoil Plating Limits | Clarification of topsoil plating limits. |
| 40 | 10/1/2002 | ROADSIDE DEVELOPMENT | Irrigation Controller Installation for Future Landscape Projects | The Final Designer must meet with ADOT Roadside Development Section after the Stage II (30%) submittal to identify the potential locations of the future irrigation controllers. |
| 40 | 10/1/2002 | UTILITY | Guide for Accommodating Utilities on Highway Right-of-Way | The Utilities Manual is available on the ADOT web site. The new Section 13 addresses the abandonment of utilities within ADOT right-of-way. |
| 40 | 10/1/2002 | ROADWAY | Roadway Design Guidelines, New Chapter 700, Earthwork Design | Distribution and discussion of the new Roadway Design Guidelines, Chapter 700, Earthwork Design. |
| 41 | 1/7/2003 | ROADWAY | Design Vehicle, ARFC Overlay | Implementation of the WB-67 design vehicle. ADOT will provide ARFC converlays on the Regional Freeway System. |
| 41 | 1/7/2003 | ROADWAY | Crash Cushion Selection Procedure | Distribution and discussion of the new ADOT Crash Cushion Selection Procedure. |
| 41 | 1/7/2003 | ROADWAY | Design Exception and Design Variance Guide | Distribution and discussion of the new Design Exception and Design Variance Process Guide. |

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| 41 | 1/7/2003 | STRUCTURE | New Bridge Design Details | Discussion of the upcoming distribution of new ADOT Bridge Group standard details. |
| 42 | 3/4/2003 | ROADWAY | Asphalt Rubber Friction Course (ARFC) | An asphalt rubber friction course (ARFC) overlay will be added to the current Regional Freeway System construction projects. |
| 42 | 3/4/2003 | ROADWAY | ADAAG Guidelines: Truncated Domes/Sidewalk Ramps | Distribution of the ADAAG Guidelines for truncated domes and sidewalk ramps. |
| 42 | 3/4/2003 | ROADWAY | Guard Rail End Treatments | Distribution of the approved barrier end treatments. Guidelines for the selection of the appropriate end treatment. |
| 43 | 8/5/2003 | FMS | New Ramp Metering Guidelines | Current development of new ADOT Ramp Metering Design and Guidelines. |
| 43 | 8/5/2003 | ROADWAY | Brifen Cable Barrier | Distribution and discussion of the Brifen Wire Rope Safety Fence. |
| 43 | 8/5/2003 | STRUCTURE | New MSE Retaining Wall Specification | ADOT is developing a new specification for mechanically stabilize earth (MSE) retaining wall systems. The Designers should contact ADOT's Contracts and Specifications Section to obtain a copy of the new specification. |
| 43 | 8/5/2003 | ROADWAY | Roadway Design Guidelines Section 407, Design Vehicles | Distribution and discussion of the new ADOT Roadway Design Guideline Section 407, Design Vehicles. |
| 44 | 11/4/2003 | ADMINISTRATION | Design Requirements | Design must be completed in accordance with the project Scope-of-Work, design and construction standards, environmental documents, and policies and procedures. |

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| 44 | 11/4/2003 | TRAFFIC | ADOT Work Zone Traffic Control Training Program | The ADOT Traffic Group has developed a training program to inform users of changes in requirements for work zone traffic control. Guidelines for messages placed on portable changeable message signs. FHWA approved abbreviations for use on highway signs. |
| 44 | 11/4/2003 | TRAFFIC | Adoption of the Updated Manual on Uniform Traffic Control Devices | Status of ADOT's adoption of the Millennium Edition of the MUTCD, and the development of the Arizona Supplement to the MUTCD. |
| 44 | 11/4/2003 | ROADWAY | Roadway Design Guidelines Section 208 - Airports and Airways Highway Clearances | Distribution and discussion of the updated ADOT Roadway Design Guidelines Section 208; Airport and Airways Highway Clearances was updated to provide guidance for the coordination and permitting of projects near public airports. |
| 44 | 11/4/2003 | SPECIFICATIONS | A+B Bidding | Clarification of the use of A+B bidding. |
| 45 | 3/2/2004 | ROADWAY | Roadway Design Guidelines - Draft Chapters 1, 100 and 200 | ADOT Roadway Group has recently updated Chapters 100 and 200 of the Roadway Design Guidelines. |
| 45 | 3/2/2004 | ADMINISTRATION | Submittal Checklist - New Version | Distribution of the Department's recently modified Stage III, IV and V Submittal Checklists. |
| 45 | 3/2/2004 | STRUCTURE | Mechanically Stabilized Earth Retaining Wall Systems | ADOT Materials Group has developed a draft special provision that is currently being used on construction projects. Discussion of design considerations when evaluating the use of MSE walls. |
| 45 | 3/2/2004 | ROADWAY | Roundabout Interchange Policy | Distribution and discussion of the recent memorandum from the State Engineer's Office that requires the evaluation of roundabouts as an alternative for intersection and interchange projects. |
| 46 | 8/3/2004 | TRAFFIC | Freeway Guide Sign Lighting Standards | Distribution and discussion of the ADOT Traffic Engineering Policies, Guidelines and Procedures (PGP) Section 790, Overhead Guide Sign Lighting. |

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| 46 | 8/3/2004 | TRAFFIC | Freeway Light Fixture Standards | distribution and discussion of the new Inductive Fluorescent light fixtures. |
| 46 | 8/3/2004 | TRAFFIC | Crossroad Lighting Standards | Clarification of crossroad sign lighting. |
| 47 | 12/7/2004 | GENERAL | Standard Sheets 1A, 1B, 1C and 1D | Distribution and discussion of recent ADOT memorandum regarding ADOT Plan Sheets 1A, 1B, 1C and 1D. |
| 47 | 12/7/2004 | STRUCTURE | Stay-in-Place Bridge Deck Forms | Discussion of acceptable alternatives for "stay-in-place" bridge deck forms. |
| 47 | 12/7/2004 | TRAFFIC | Presentation of Pullbox Locations on Plans | Clarification of requirements to address the documentation of pullbox locations in the design and as-built plans. |
| 47 | 12/7/2004 | FMS | Loop Detector Spacing | Distribution and discussion of ADOT Technology Group memorandum regarding the spacing of loop detectors. |
| 47 | 12/7/2004 | ROADWAY | Construction Standard Drawings | Distribution of updated C-Standard Drawings. |
| 48 | 6/7/2005 | TRAFFIC | New Traffic Group Stored Specifications | New specifications for Section 608 - Sign Panels and Section 1007 - Reflective Sign Sheeting. |
| 48 | 6/7/2005 | GENERAL | Regional Transportation Plan (RTPFP) Implementation | Three Management Consultants (MC's) have been selected for the RTPFP. The MC roles and responsibilities were discussed, along with upcoming final design opportunities. |

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| 49 | 8/3/2005 | ROADWAY | Implementation of New RDG Recommended Shoulder Widths | The RDG was recently updated to modify the recommended shoulder widths. |
| 49 | 8/3/2005 | CONSTRUCTION | Post Design Services | Procedures for the administration of Post Design Services. |
| 49 | 8/3/2005 | TRAFFIC | Signing and Marking for Through Movements at Off Ramps | ADOT Traffic Group's Manual of Approved Signs was modified to include a new sign panel to allow for an exit ramp to entrance ramp movement at ramp intersections. |
| 49 | 8/3/2005 | GENERAL | CADD Archiving Process | CADD file archiving process. |
| 50 | 11/1/2005 | ADMINISTRATION | RTPFP Program Management | Valley Project Management is now responsible for the administration of all projects within Maricopa County. Design consultants should provide VPM and DMJM Harris with copies of all scoping documents, project plans and estimates for each submittal for all projects in Maricopa County. |
| 50 | 11/1/2005 | ADMINISTRATION | DIRP Meeting Minutes Summary | A summary of the DIRP meetings will be available on the ADOT Valley Project Management web page. |
| 50 | 11/1/2005 | TRAFFIC | Pullbox Locations on Plans | Pullbox locations should not be shown on the construction plans, and should not be provided with Post Design services. |
| 50 | 11/1/2005 | SURVEY/MAPPING | Surveys and Aerial Mapping Design Procedure Memorandum | New Surveys and Aerial Mapping Design Procedure Memorandum. |
| 50 | 11/1/2005 | STRUCTURES | Presentation of Earthwork Finish Grades on Structure Plans | Guidelines to present earthwork finish grade information on structure and retaining wall plans. |

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| 50 | 11/1/2005 | ROADWAY | Roadway Design Guidelines (RDG) Chapter 500 | Draft Roadway Design Guidelines Chapter 500, Traffic Interchanges. |
| 51 | 1/3/2006 | ADMINISTRATION | Submittal Checklists | The VPM submittal checklists were recently updated. |
| 51 | 1/3/2006 | TRAFFIC | Traffic "Lessons Learned" Document | A new "Traffic Lessons Learned" document was developed to capture the lessons learned from the Proposition 300 freeway program. Consultants shall use this document for all scoping and final design projects. |
| 51 | 1/3/2006 | ADMINISTRATION | Post Design Services | Post design services labor rates and administration process. |
| 51 | 1/3/2006 | ESTIMATES | E2C2 Estimates | All future scoping and final design submittal estimates shall be input into E2C2. |
| 51 | 1/3/2006 | ESTIMATES | Construction Segment Costs and Descriptions Notebook Guidelines | New Construction Segment Costs and Descriptions Notebook Guidelines and final design submittal requirements. |
| 52 | 5/2/2006 | ADMINISTRATION | Electronic Submittals and Record Drawings | The procedures for the submittal of electronic files was presented for each submittal stage, As-Bid Drawings, Record Drawings and project archiving. |
| 52 | 5/2/2006 | CADD | Transition to MicroStation Version 8 (V8) | Tools and resources necessary to utilize V8 for ADOT are available at http://www.adot.gov/highways/cae/standards/standards.asp . |
| 52 | 5/2/2006 | ROADWAY | Roadway Design Guidelines (RDG) Chapter 700 Update | Brief description on recent updates to RDG Chapter 700 - Earthwork. |

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| 52 | 5/2/2006 | ROADWAY | Cost Effective Use of Curb and Gutter | Designers should evaluate the potential use of a rural and urban freeway sections for cost effectiveness. |
| 53 | 9/5/2006 | ROADWAY | ADA Requirements for Sidewalk Ramps | ADOT Roadway Engineering Group presented ADA requirements for sidewalk ramps. |
| 53 | 9/5/2006 | MATERIALS | Concrete Paving on Median Shoulders | The median shoulder width and structural section will be revised by ADOT Pavement Design Section and ADOT Phoenix Construction District. The final guidelines will be presented at a future DIRP meeting. |
| 53 | 9/5/2006 | MATERIALS | Pavement Design Guidelines for Urban Highways | The Pavement Design Guidelines were updated in August 2006. The revisions to the guidelines were presented at the meeting. |
| 54 | 11/7/2006 | GEOTECHNICAL | Earth Fissures | Designers shall investigate the potential existence of earth fissures. |
| 54 | 11/7/2006 | ROADWAY | Median Shoulder Paving | Use of concrete pavement and ribbon curb for shoulders adjacent to open medians. |
| 55 | 3/6/2007 | ROADWAY | High-Tension Cable Barrier | ADOT Roadway Group presented a new special provision for High-Tension Cable Barrier. |
| 55 | 3/6/2007 | ROADWAY | Chapter (6) Update to AASHTO Roadside Design Guide | The AASHTO Roadside Design Guide was recently updated for median barriers. |
| 55 | 3/6/2007 | ROADWAY | Design Exceptions and Variations | Revisions to the Design Exception and Design Variance Guide. |

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| 55 | 3/6/2007 | ROADWAY | Bicycle Policy Update | The ADOT MGT 02-1 Bicycle Policy was updated effective February 27, 2007. |
| 56 | 9/5/2007 | UTILITIES & RAILROAD | U&RR Stage Submittal Checklist | The new U&RR Stage Submittal Checklist was presented and shall be completed by all designers for all project submittals. |
| 56 | 9/5/2007 | TRAFFIC | ADOT Freeway Management System (FMS) | New FMS Design Guidelines, Standard Drawings and Stored Specifications. |
| 56 | 9/5/2007 | ADMINISTRATION | New Pre-Proposal Procedures for RFP's | New Pre-Proposal Procedures will be used during the Request for Proposals (RFP) process. |